```
   1 ccgcatccta gccgccgact cacacaaggc aggtgggtga ggaaatccag agttgccatg
  61 gagaaaattc cagtgtcagc attcttgctc cttgtggccc tctcctacac tctggccaga
 121 gataccacag tcaaacctgg agccaaaaag gacacaaagg actctcgacc caaactgccc
 181 cagaccctct ccagaggttg gggtgaccaa ctcatctgga ctcagacata tgaagaagct
 241 ctatataaat ccaagacaag caacaaaccc ttgatgatta ttcatcactt ggatgagtgc
 301 ccacacagtc aagctttaaa gaaagtgttt gctgaaaata aagaaatcca gaaattggca
 361 gagcagtttg tcctcctcaa tctggtttat gaaacaactg acaaacacct ttctcctgat
 421 ggccagtatg tccccaggat tatgtttgtt gacccatctc tgacagttag agccgatatc
 481 actggaagat attcaaatcg tctctatgct tacgaacctg cagatacagc tctgttgctt
 541 gacaacatga agaaagctct caagttgctg aagactgaat tgtaaagaaa aaaaatctcc
 601 aagcccttct gtctgtcagg ccttgagact tgaaaccaga agaagtgtga gaagactggc
 661 tagtgtggaa gcatagtgaa cacactgatt aggttatggt ttaatgttac aacaactatt
 721 ttttaagaaa aacaagtttt agaaatttgg tttcaagtgt acatgtgtga aaacaatatt
 781 gtatactacc atagtgagcc atgattttct aaaaaaaaaa ataaatgttt tggggggtgtt
 841 ctgtttttctc caacttggtc tttcacagtg gttcgtttac caaataggat taaacacaca
 901 caaaatgctc aaggaaggga caagacaaaa ccaaaactag ttcaaatgat gaagaccaaa
 961 gaccaagtta tcatctcacc acaccacagg ttctcactag atgactgtaa gtagacacga
1021 gcttaatcaa cagaagtatc aagccatgtg ctttagcata aagaatatt tagaaaaaca
1081 tcccaagaaa atcacatcac tacctagagt caactctggc caggaactct aaggtacaca
1141 ctttcattta gtaattaaat tttagtcaga ttttgcccaa cctaatgctc tcagggaaag
1201 cctctggcaa gtagctttct ccttcagagg tctaatttag tagaaaggtc atccaaagaa
1261 catctgcact cctgaacaca ccctgaagaa atcctgggaa ttgaccttgt aatcgatttg
1321 tctgtcaagg tcctaaagta ctggagtgaa ataaattcag ccaacatgtg actaattgga
1381 agaagagcaa agggtggtga cgtgttgatg aggcagatgg agatcagagg ttactagggt
1441 ttaggaaacg tgaaaggctg tggcatcagg gtaggggagc attctgccta acagaaatta
1501 gaattgtgtg ttaatgtctt cactctatac ttaatctcac attcattaat atatggaatt
1561 cctctactgc ccagcccctc ctgatttctt ggcccctgg actatggtgc tgtatataat
1621 gctttgcagt atctgttgct tgtcttgatt aacttttttg gataaaacct tttttgaaca
1681 gaaaaaaaaa aaaaaaaaaa a
```

FIG. 1

```
  1 MEKIPVSAFLLLVALSYTLARDTTVKPGAKKDTKDSRPKL
 41 PQTLSRGWGDQLIWTQTYEEALYKSKTSNKPLMIIHHLDE
 81 CPHSQALKKVFAENKEIQKLAEQFVLLNLVYETTDKHLSP
121 DGQYVPRIMFVDPSLTVRADITGRYSNRLYAYEPADTALL
161 LDNMKKALKLLKTEL
```

FIG. 2

```
  1 ggcaaccctt gcggctcaca caaagcagga gggtgggaag cccagatttg ccatggagaa
 61 attttcagtg tctgcaatcc tgcttcttgt ggccatttct ggtaccttgg ccaaagacac
121 cacagtcaaa tctggagcca aaaaggaccc aaaggactct cggcccaaac tacctcagac
181 actctccaga ggttggggcg atcagctcat ctggactcag acatacgaag aagctttata
241 cagatccaag acaagcaaca gacccttgat ggtcattcat cacttggacg aatgcccaca
301 cagtcaagcc ttaaagaaag tgtttgctga acataaagaa atccagaaat ggcagagca
361 gtttgttctc ctcaacctgg tctatgaaac aaccgacaag cacctttctc ctgatggcca
421 gtacgtcccc agaattgtgt ttgtagaccc atccctgacg gtgagggcag acatcactgg
481 acgatactca aaccggctct acgcttatga accttctgac acagctttgt tgtacgacaa
541 catgaagaaa gctctcaagc tgctaaagac agaattgtag agctaactgc gcaccgggtc
601 aggagaccag aaggcagaag cactgtggac ttgcagatta cagtacagtt taatgttaca
661 acagatatat tttttaaaca cccacaggtg gggaaacaat attattatct actacagtga
721 agcatgattt tctagaaaat aaagtcttgt gagaactcca aaaaaaaaa aaaaaaaaa
```

FIG. 3

MEKFSVSAILLLVAISGTLAKDTTVKSGAKKDPKDSRPKLPQTLSRGWGDQLIWTQTYEEALYRS
KTSNRPLMVIHHLDECPHSQALKKVFAEHKEIQKLAEQFVLLNLVYETTDKHLSPDGQYVPRIVF
VDPSLTVRADITGRYSNRLYAYEPSDTALLYDNMKKALKLLKTEL

FIG. 4

```
  1 cggcaaccct tgcggctcac acaaagcagg agggaggaga gctcagattt gccatggaga
 61 aattttcagt ctcggcaatc ctgcttcttg tggccatctc tggtactctg gccaaagaca
121 ccacagtcaa atctggatcc aaaaaggacc caaaggactc tcgacccaaa ctaccccaga
181 ccctgtccag aggttgggga gatcagctca tctggactca gacttacgaa gaagccttat
241 acaaatccaa gacaagcaac agacccttga tggtcattca tcacttggac gaatgcccgc
301 acagtcaagc tttaaagaaa gtgtttgctg aaaataagga gatccagaaa ttggcagagc
361 agtttgttct cctcaacttg atctatgaaa caactgacaa gcacctttct cctgatggcc
421 agtacgtccc cagaattgtg tttgtggacc cttccctgac ggtgagggca gacatcaccg
481 gaagatactc aaaccgtctc tacgcttacg aaccttctga cacagctctg ctgcacgaca
541 acatgaagaa agctctcaag ttgctgaaga cagagttgta gagtcaactg tacagtgcct
601 caggagccgg gaaggcagaa gcactgtgga cctgccgatg acattacagt ttaatgttac
661 aacaaatgta ttttttaaac acccacgtgt ggggaaacaa tattattatc tactacagac
721 acatgatttt ctagaaaata aagtcttgtg agaactcc
```

FIG. 5

MEKFSVSAILLLVAISGTLAKDTTVKSGSKKDPKDSRPKLPQTLSRGWGDQLIWTQTYEEALYKS
KTSNRPLMVIHHLDECPHSQALKKVFAENKEIQKLAEQFVLLNLIYETTDKHLSPDGQYVPRIVF
VDPSLTVRADITGRYSNRLYAYEPSDTALLHDNMKKALKLLKTEL

FIG. 6

```
   1   AACCCTAGTT ACCTCACACC AAGACAGATA TGCCAAAGAT TCCACAGCCT

  51   CAATAGCATG TGTAGGATAT CTGCTAATAA TTACCTCCTC CTTGCCATCC

 101   GTCAGCCACT ATGACAAACT CTGGGTTTTT CCTGACATGA GATTAGGCAC

 151   ATGAGTATAG AATAATTATA TCACTATAAT TAACTGTAAC AAATCAAAGA

 201   CTTTTTTTTT TAAGTTCCGG AGTATGTGTG TAGGATGTGC AGGTTTGTTC

 251   CATCAGTAAA CGTGTGCCAT GGTGGTTTGC TGCACTGATC AACCCAACAA

 301   CTAGGTCTTA AGCCAGCCTG CATTAGCTAC TTTTATCAAA TGTTATGGGC

 351   TGAATTGTGT CCCCCCCAAA AATTCATATG TTGAAGTCTT AATCCCCAGG

 401   ACTTCAGAAT AGGATCTTTA CAGAGGTAAT TAAGTTAAAG TAGGTCATTA

 451   GGCAGGACCC AAATACAATA TGACTGGTGT CCTTATAAGA AAAGGAAAAA

 501   AATGACACAG ACAGGTACAG AGGGAAAAAC CATGTGGCAA TACAGGGAAA

 551   AGTCATTTAA TATTCAAAAT GGTCCCATAT GTTAATATTA TCCCCATATT

 601   ATAGATGGAG AAACTGAAGT TTTGGGGATG TTAAATGAGA TCTCAGATCA

 651   TCCTATGAGC AAGCACCAGG ATGCAGGATT CAGATGGGAA TCTCGTGACT

 701   CCAAATCCCA TCCACTTGTT ACTTTCAGTG GATAAGGGAC TGAAGGACTT

 751   TGGTCCCAAC TCTGCCCTAA ACTAGTTGTG AGACCTTCAA AAAGTTATGA

 801   ATTTTTTGCC ATCTTCATTT ATTCATCTGT AAAATGAAAG ACTGGAATTG

 851   AATATTACAA GGGTCTATCT AAGGGCCTGC TAGTTTTAAG AATTTTGCTC

 901   AAATCATCGT TTTCAAACTC CTGAAGAAAT TACTTCTATA AATTCATTAG

 951   AATTGAAAGG AAATTCAGTA TTTGGAGAAT CACGATTTTG CCCACAGAAT

1001   TCAAGGATTT ATTGGAAAAA TATACATACT TGCAAATGTT TTTGAAATAT

1051   TATGACCTTA ACTCATTTTA AAAGTCATT TATATAGGGC TTGCATCCCA

1101   TTCATTAACT TTCTGTTGTT AACATTTTCT TCATTCTGAG CTTTTAAAGA

1151   CTGCACACAA CTTCATGAAC AAAATACAGG ATTAAAATTT TCTGACAGAA

1201   AATTTAAATT CCAGTTTTAA AATCTTCAGG GAGTAATTAA ATGGTCTTGA

1251   GGGGAAAAAA AACTTGGTTG CAGACCTTAG TTTTTAGGTC TGAGAAAATG
```

```
1301    GAGTAAATGG  CTTCCTGCTT  GCGTGGCAGG  AAAGTTTGCC  TTTAAATAAG

1351    AGATTATCTG  TGAAATACCT  TTGAACTCTG  TGGAGGGAAG  TTGCTGCATA

1401    CATTCAATGG  CAAGGCATTT  ATTACAAGCT  CACGATATTA  GGCTGTTTTT

1451    TTTTTTTTTT  TTGCCAATAC  TTCCTCAGTT  TTGAAAAATT  ACGTGGGTTA

1501    CTTGATTTGT  ATTTTTTTTC  ATACCTGTAG  AAGTTAGGGT  GCATTGTTTT

1551    GACAGGAGCA  GGGAAGTATT  GTAGAAAATA  ATTTTTATCA  TAATGGAGTA

1601    TGGCAGGTTA  TATGACTGCG  AGGATCAGAA  TTGTGAATCA  TCTCTTGTGT

1651    GTCTTCAAGT  AAATAAGGC   AATCTGCCCA  CGGAGCAGAA  AAAAAATCTA

1701    CAAACTACAA  ACTCTGTCCA  ATCATGTAAA  GACAAATCAG  CCTTCAGGCA

1751    AATCAAATGT  CTTCATTCAA  AGTCTACCTG  GATTTGGCAC  TCTGCCCATC

1801    GTTTCAAAAC  CTCTTAACAA  TACGTTTCAC  AAATAGTTAA  AAACATGCAT

1851    ACTGAAAAGC  ATACTTTTGC  AATGTTATTT  TTAAAAACAA  GGAACTCTTT

1901    AACCCAGGGA  AGATAATCAC  TTGGGGAAAG  GAAGGTTCGT  TTCTGAGTTA

1951    GCAACAAGTA  AATGCAGCAC  TGGTGGGTGG  GATTGAGGTG  TGCCCTGGTG

2001    CATAAATAGA  GACTCAGCTG  TGCTGGCACA  CTCAGAAGCT  TGGACCGCAT
```

FIG. 7

```
   1   AAAGGTCTAG   AAAGAAACCT   TTTAAATGAG   TGAACTTTAC   CATACCTAGA

  51   AATGCTGTGG   GCTAGTGACT   CTTGAAATAA   CTCCATTTGC   TTATGCTTCT

 101   AAAAGGTCTA   CAGAGACCAT   TTTTTTAAAA   GATGATTGAT   TAAAAAAAAC

 151   TGATTTGAGG   TAAAAACCTT   AACTAGAATT   GCTCTCACAT   ATCTAAATAT

 201   CACTATTTAG   CCTTTAGTTC   TATTCAAACC   ATTATTTTAC   AGATTAGAAA

 251   CACCAAACAA   ACGATTAAGC   AAACAAAAAT   AGAACAGTCA   ATAGTTTTCT

 301   AAAGGCCCTA   CAATTAGTTG   AGGGCAGAGC   TAGGAGGAAA   GCCAGGGCTC

 351   TTCTACTCCA   CTATCTTAGG   CATTGGGAAA   TGGGTGGGAT   TTCGGGTCAA

 401   TTACAGTCAG   CATCCTGCTT   CCACACTCTG   GATGATGATA   TCAGAGGTGA

 451   CACTGAACAC   CCTGAAACTT   TAGTTTCCAC   GCCTGTAACA   GAGTTCCATG

 501   CAACAGTTCA   GAGCGACATA   GTCGTGAACA   TAGAGTGAAC   TGAGGAAGAG

 551   GAAGAGGCTT   GGGATGAACG   TAGGGTCCCT   GCTTCCACAG   GAACAGGACA

 601   GCCTGGGAGG   CTGAAGCATC   GGCGATTCAC   CTTCGCTCAA   TCCTGGAGGC

 651   TCCACACAGA   CCATTGATGT   GTCAGCAGCG   TTAGGTTCTT   CTCTTCTTGG

 701   CCTGTAGATG   AAGTCATTAT   GTGCCTGTGT   CTCTGACCTA   AGTTTCTTTC

 751   CTATGAGAAT   AACAGTCATA   TTAGATTAGA   ACCCAGTCTA   ATGACCTATT

 801   TCACTTACTT   TAAATTTCTT   ATTCATTTAT   TTCAATTACT   TTCATTTTAT

 851   TTACTTACTG   TGGTACTTAG   AATCAAATTC   AGAGCCTTGC   ACATACTTAA

 901   CAAATGCTTA   ATCTCTCTTT   AAGACCCTCT   CTCTGTGTAT   GATCATCTGA

 951   TGAGGTCCTG   GGAATTACAG   CACATGGATT   CCTTTAAAAC   ACATCTCAAC

1001   CATACCTCTT   GGTAATTAAA   AACATCTCTA   ATTTGCTGTA   ATTCACTATA

1051   ATGATATAAC   AGCTATCCTG   GAGTATTCCT   GTGTCTAATT   TCATGCTGGT

1101   AAAGCTCTGG   TTATGGTACA   ACAAAGATGA   GGTAATTATT   ACAACATCCT

1151   GCACATACTG   GGGTATCTGT   GGCATCCTTG   GTACATCAGT   CCTGAAACGA

1201   AGCCAATATC   TACAGTAGCT   TTGAGATGCG   TAGGCGAGGG   TAATTCTTTT

1251   ATGCTACTGA   GGTGGTACTG   TGTGGTCATT   CTTTGTGATC   TCCTGATGTT

1301   GCGATGCACA   CCCACAAACA   CACATTTGTA   CACATATATT   AATCATCAGG
```

```
1351    GCCATTATTA  GCTCACAACA  TTATCCTATC  CTTCCTTTCT  TCAATAACCT

1401    CTCCGAGTTT  GAAGAGTCCA  TGGCGATGAT  TTGCGGGGTT  TATACCTGTG

1451    ATTAAAGCGC  ACACAAAAA   TGATATTGTG  GAAAATAACA  TGTCTTGTGA

1501    TCGAGCATGG  CCAGCTGTAT  AACTGTAAGA  AGGATTAGAA  CTGTGAATCA

1551    TCCTTAAGAA  AAAAAAAAA   AAAAAAAAG   CTAAATAAAT  GCAATCTGCC

1601    CAAGAGGGAG  GAAATGAATA  CCTATAAACC  ACAACTTCTA  TCCAATCACA

1651    TACAGACAAA  TCAGCCTTCA  GACCAATCAA  ACGTCTTCAT  TTAAAGCTTA

1701    CCTGGACTTG  GCATACTGCC  CAGCTTTTCC  AAAACTACTC  ACAATAATAC

1751    CTTCAACAAC  AGTTAAAAAA  CGCTGGTACT  CAAACAAAAT  CAACAGCCTT

1801    TTCAACGACT  GCTTTAAAAA  AGACCAAACA  AACAAACAAG  GAACGTCTTA

1851    ACCCAGAGAA  GACAATTGCT  TGGGAGAGGA  AAAGTTTGCT  TCTGAGTTAG

1901    CAGCCTGTGG  AAACAGGATT  AGTGGGTGGG  ATTGGGGTGT  GCTCTGCCCA

1951    TAAATACAGG  CTCAGCGCTG  CGCTGGCACA  CTGAGAAACT  TGGACGGCAA

2001    CCCTTGCGGC  TCACACAAAG  CAGGAGGGTG  GGAAGCCCAG  GTAAGGCAAT
```

FIG. 8